STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/567, 364 A_

Source: _IFWO_

Date Processed by STIC: _09/12/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: __10/567, 364 A__

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length
The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3_____Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4_____Non-ASCII
The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5_____Variable Length
Sequence(s)_____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7_____Skipped Sequences
(OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8_____Skipped Sequences
(NEW RULES)
Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9_____Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or **Xaa**, and which residue n or **Xaa** represents.

10_____Invalid <213>
Response
Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11_____Use of <220>
~~Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses.~~ Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12_____PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____ Misuse of n/Xaa
"n" can **only** represent a single <u>nucleotide;</u> "Xaa" can **only** represent a single <u>amino acid</u>

AMC – STIC Systems Branch – 03/02/06

IFWO

```
RAW SEQUENCE LISTING                    DATE: 09/12/2006
PATENT APPLICATION:  US/10/567,364A     TIME: 16:01:30

Input Set : A:\Sequence Listing for SAE-0037.txt
Output Set: N:\CRF4\09122006\J567364A.raw
```

```
        3  <110> APPLICANT: Japan Science and Technology Agency
        5  <120> TITLE OF INVENTION: Nucleoside releasing functional unit through oxidation and
        6        process for producing oligonucleotide containing thereof.
        8  <130> FILE REFERENCE: JA909325
C-->   10  <140> CURRENT APPLICATION NUMBER: US/10/567,364A
C-->   11  <141> CURRENT FILING DATE: 2006-02-07
       13  <150> PRIOR APPLICATION NUMBER: JP2003-289972
       14  <151> PRIOR FILING DATE: 2003-08-08
       16  <160> NUMBER OF SEQ ID NOS: 4
       18  <170> SOFTWARE: PatentIn version 3.1
       20  <210> SEQ ID NO: 1
       21  <211> LENGTH: 28
       22  <212> TYPE: DNA
       23  <213> ORGANISM: Artificial Sequence
       25  <220> FEATURE:
       26  <221> NAME/KEY: misc_feature
       27  <222> LOCATION: (20)..(20)
       28  <223> OTHER INFORMATION: n means TAMRA-edaG.
       30  <400> SEQUENCE: 1
W-->   31  atttatagtg tgggttgttn tttattat                                    28
       34  <210> SEQ ID NO: 2
       35  <211> LENGTH: 28
       36  <212> TYPE: DNA
       37  <213> ORGANISM: Artificial Sequence
       39  <220> FEATURE:
       40  <221> NAME/KEY: misc_feature
       41  <222> LOCATION: (22)..(22)
       42  <223> OTHER INFORMATION: n means 4'-cyanobenzophenone-3-ilacetylenil-uracil.
       44  <400> SEQUENCE: 2
W-->   45  ataataaaca acaacccaca cnataaat                                    28
       48  <210> SEQ ID NO: 3
       49  <211> LENGTH: 28
       50  <212> TYPE: DNA
       51  <213> ORGANISM: Artificial Sequence
       53  <220> FEATURE:
       54  <223> OTHER INFORMATION: ODN2(T)
       56  <400> SEQUENCE: 3
       57  ataataaaca acaacccaca ctataaat                                    28
       60  <210> SEQ ID NO: 4
       61  <211> LENGTH: 28
       62  <212> TYPE: DNA
       63  <213> ORGANISM: Artificial Sequence
       65  <220> FEATURE:
```

Handwritten annotations: Does Not Comply — Corrected Diskette Needed (pg - 1-2); need Explanation in <220> - <223> Sections (See Item 11 on Error Summary Sheet.); Same Error (×3)

RAW SEQUENCE LISTING   DATE: 09/12/2006
PATENT APPLICATION: US/10/567,364A   TIME: 16:01:30

Input Set : **A:\Sequence Listing for SAE-0037.txt**
Output Set: **N:\CRF4\09122006\J567364A.raw**

```
   66 <221> NAME/KEY: misc_feature
   67 <222> LOCATION: (19)..(19)
   68 <223> OTHER INFORMATION: n means T-eda
   70 <400> SEQUENCE: 4
W--> 71 atttatagtg tgggttgtng tttattat                              28
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/12/2006
PATENT APPLICATION: US/10/567,364A   TIME: 16:01:31

Input Set : **A:\Sequence Listing for SAE-0037.txt**
Output Set: **N:\CRF4\09122006\J567364A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 20
Seq#:2; N Pos. 22
Seq#:4; N Pos. 19

VERIFICATION SUMMARY   DATE: 09/12/2006
PATENT APPLICATION: **US/10/567,364A** TIME: 16:01:31

Input Set : **A:\Sequence Listing for SAE-0037.txt**
Output Set: **N:\CRF4\09122006\J567364A.raw**

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
```